

CRF Errors Corrected by the STIC System Branch

CRF Processing Date:

Edited by:

Verified by:

DC (STIC staff)

APR 22 2003

RECEIVED
ENTERED
TECH CENTER 1600/2900Serial Number: 09/692, 945 Changed a file from non-ASCII to ASCII Changed the margins in cases where the sequence text was "wrapped" down to the next line Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____. Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file;
 page numbers throughout text; other invalid text, such as _____. Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____ Other:

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



APR 22 2003

OIPE

TECH CENTER 1600/2900

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/692,945

DATE: 04/15/2003
TIME: 13:13:12

Input Set : A:\PTO.DC.txt
Output Set: N:\CRF4\04152003\I692945.raw

```

4 <110> APPLICANT: Chiron Corporation
5     Kyoto University
6     Itoh, Nobuyuki
7     Kavanaugh, Michael W.
9 <120> TITLE OF INVENTION: HUMAN FGF-20 GENE AND GENE EXPRESSION
10    PRODUCTS
12 <130> FILE REFERENCE: 60219-6/16770.001
14 <140> CURRENT APPLICATION NUMBER: 09/692,945
15 <141> CURRENT FILING DATE: 2000-10-20
17 <160> NUMBER OF SEQ ID NOS: 17
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 648
23 <212> TYPE: DNA
24 <213> ORGANISM: Rattus norvegicus
26 <400> SEQUENCE: 1
27 cttccatgg ctcccttgcac gaaagtcgtt gccttcttgg gcggccttggaa gggcttgggc      60
28 cagcagggtgg ggtcgactt cttgcgtcct cctgcagggg agcgaccgcc gctgcttaggg      120
29 gagcggcggg ggcgcgttggaa gcggggcggcc cgcggcgggc cgggttcgtt ggagctggcg      180
30 cacctgcacg gcatcctgcgc cccggggcag ctctactgcc gcacccggctt ccacctgcag      240
31 atcctgcccc acggcagtgt gcagggcacc cggcaggatc acagcctctt cggatccctg      300
32 gaattcatca gtgtggcggtt ggggctggtc agtatacagag gtgtggacag cggcctgtac      360
33 cttggcatga atggcaaagg agagctttat ggctcagaga aatttgacttc tgaatgcattc      420
34 ttcaaggaaac aattttaaga gaaactggat aataaccttatt catccaacat atacaacac      480
35 ggagacacaaat gtcgcaggta tttttagca cttacaaaag acgggactcc aaggggacgg      540
36 gccagggtcca aaagacacca aaagtttacc catttttac ccagaccatgg ggaccacag      600
37 agagccccaaat agttatacaa agacctactg gtgtacactg gatgaacc      648
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 212
41 <212> TYPE: PRT
42 <213> ORGANISM: Rattus norvegicus
44 <400> SEQUENCE: 2
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46   1           5           10          15
47 Leu Gly Gln Gln Val Gly Ser His Phe Leu Leu Pro Pro Ala Gly Glu
48   20          25           30
49 Arg Pro Pro Leu Leu Gly Glu Arg Arg Gly Ala Leu Glu Arg Gly Ala
50   35          40           45
51 Arg Gly Gly Pro Gly Ser Val Glu Leu Ala His Leu His Gly Ile Leu
52   50          55           60
53 Arg Arg Arg Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Gln Ile Leu
54   65          70           75           80
55 Pro Asp Gly Ser Val Gln Gly Thr Arg Gln Asp His Ser Leu Phe Gly

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56	85	90	95
57	Ile Leu Glu Phe Ile Ser Val Ala Val Gly Leu Val Ser Ile Arg Gly		
58	100	105	110
59	Val Asp Ser Gly Leu Tyr Leu Gly Met Asn Gly Lys Gly Glu Leu Tyr		
60	115	120	125
61	Gly Ser Glu Lys Leu Thr Ser Glu Cys Ile Phe Arg Glu Gln Phe Glu		
62	130	135	140
63	Glu Asn Trp Tyr Asn Thr Ser Ser Asn Ile Tyr Lys His Gly Asp		
64	145	150	155
65	Thr Gly Arg Arg Tyr Phe Val Ala Leu Asn Lys Asp Gly Thr Pro Arg		
66	165	170	175
67	Asp Gly Ala Arg Ser Lys Arg His Gln Lys Phe Thr His Phe Leu Pro		
68	180	185	190
69	Arg Pro Val Asp Pro Glu Arg Val Pro Glu Leu Tyr Lys Asp Leu Leu		
70	195	200	205
71	Val Tyr Thr Gly		
72	210		
74	<210> SEQ ID NO: 3		
75	<211> LENGTH: 636		
76	<212> TYPE: DNA		
77	<213> ORGANISM: Homo sapiens		
79	<400> SEQUENCE: 3		
80	atggctccct tagccaaat cggggcctt ctggggcgcc tggagggctt gggccagcag	60	
81	gtgggttcgc atttcctgtt gcctcctgcc ggggagcggc cgccgctgtct gggcgagcgc	120	
82	aggagcgcgg cggagcggag cgcgcgcggc gggccgggg ctgcgcagct ggcgcacctg	180	
83	cacggcatcc tgcgcgcggc gcagctctat tgccgcaccg gttccacact gcagatcctg	240	
84	cccgacggca gcgtgcaggg caccggcag gaccacagcc tcttcggtat ctttgaattc	300	
85	atcagtgtgg cagtggact ggtcagtatt agagggtgtgg acagtggctct ctagtggat	360	
86	atgaatgaca aaggagaact ctatggatca gagaaactta cttccgaatg catctttagg	420	
87	gagcagtttg aagagaactg gtataacacc tattcatcta acatatataa acatggagac	480	
88	actggccgca ggtatgttgc ggcacttaac aaagacggaa ctccaagaga tggccagg	540	
89	tccaagaggg atcagaaaatt tacacatttc ttacctagac cagtggatcc agaaagagtt	600	
90	ccagaattgt acaaggaccc actgtatgtac acttga	636	
92	<210> SEQ ID NO: 4		
93	<211> LENGTH: 211		
94	<212> TYPE: PRT		
95	<213> ORGANISM: Homo sapiens		
97	<400> SEQUENCE: 4		
98	Met Ala Pro Leu Ala Glu Val Gly Gly Phe Leu Gly Gly Leu Glu Gly		
99	1 5 10 15		
100	Leu Gly Gln Gln Val Gly Ser His Phe Leu Leu Pro Pro Ala Gly Glu		
101	20 25 30		
102	Arg Pro Pro Leu Leu Gly Glu Arg Arg Ser Ala Ala Glu Arg Ser Ala		
103	35 40 45		
104	Arg Gly Gly Pro Gly Ala Ala Gln Leu Ala His Leu His Gly Ile Leu		
105	50 55 60		
106	Arg Arg Arg Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Gln Ile Leu		
107	65 70 75 80		
108	Pro Asp Gly Ser Val Gln Gly Thr Arg Gln Asp His Ser Leu Phe Gly		

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109 85 90 95
110 Ile Leu Glu Phe Ile Ser Val Ala Val Gly Leu Val Ser Ile Arg Gly
111 100 105 110
112 Val Asp Ser Gly Leu Tyr Leu Gly Met Asn Asp Lys Gly Glu Leu Tyr
113 115 120 125
114 Gly Ser Glu Lys Leu Thr Ser Glu Cys Ile Phe Arg Glu Gln Phe Glu
115 130 135 140
116 Glu Asn Trp Tyr Asn Thr Tyr Ser Ser Asn Ile Tyr Lys His Gly Asp
117 145 150 155 160
118 Thr Gly Arg Arg Tyr Phe Val Ala Leu Asn Lys Asp Gly Thr Pro Arg
119 165 170 175
120 Asp Gly Ala Arg Ser Lys Arg His Gln Lys Phe Thr His Phe Leu Pro
121 180 185 190
122 Arg Pro Val Asp Pro Glu Arg Val Pro Glu Leu Tyr Lys Asp Leu Leu
123 195 200 205
124 Met Tyr Thr
125 210
127 <210> SEQ ID NO: 5
128 <211> LENGTH: 14
129 <212> TYPE: PRT
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Oligopeptides for raising antibodies
135 <400> SEQUENCE: 5
136 Arg Asp Gly Ala Arg Ser Lys Arg His Gln Lys Phe Thr His
137 1 5 10
139 <210> SEQ ID NO: 6
140 <211> LENGTH: 15
141 <212> TYPE: PRT
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Oligopeptides for raising antibodies
147 <400> SEQUENCE: 6
148 Gln Leu Ala His Leu His Gly Ile Leu Arg Arg Arg Gln Leu Tyr
149 1 5 10 15
151 <210> SEQ ID NO: 7
152 <211> LENGTH: 10
153 <212> TYPE: PRT
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Residues which can be incorporated into FGF-20 to
158 allow myc monoclonal antibody-based affinity
159 purification.
161 <400> SEQUENCE: 7
162 Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
163 1 5 10
165 <210> SEQ ID NO: 8
166 <211> LENGTH: 5
167 <212> TYPE: PRT

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Input Set : A:\PTO.DC.txt
Output Set: N:\CRF4\04152003\I692945.raw

168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Preferred thrombin cleavage site.
173 <400> SEQUENCE: 8
174 Leu Val Pro Arg Gly
175 1 5
177 <210> SEQ ID NO: 9
178 <211> LENGTH: 10
179 <212> TYPE: PRT
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Sequence which can be incorporated to allow for
184 purification of FGF-20 because of its ability to
185 bind to paramagnetic streptavidin beads.
187 <400> SEQUENCE: 9
188 Ser Ala Trp Arg His Pro Gln Phe Gly Gly
189 1 5 10
191 <210> SEQ ID NO: 10
192 <211> LENGTH: 6
193 <212> TYPE: PRT
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Consensus amino acid sequences used to create
198 sense and anti-sense PCR primers.
200 <400> SEQUENCE: 10
201 Phe Glu Glu Asn Trp Tyr
202 1 5
204 <210> SEQ ID NO: 11
205 <211> LENGTH: 6
206 <212> TYPE: PRT
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Consensus amino acid sequences used to create
211 sense and anti-sense PCR primers.
213 <400> SEQUENCE: 11
214 Thr His Phe Leu Pro Arg
215 1 5
217 <210> SEQ ID NO: 12
218 <211> LENGTH: 6
219 <212> TYPE: PRT
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Consensus amino acid sequences used to create
224 sense and anti-sense PCR primers.
226 <400> SEQUENCE: 12
227 Glu Asn Trp Tyr Asn Thr
228 1 5
230 <210> SEQ ID NO: 13
231 <211> LENGTH: 6

RAW SEQUENCE LISTING
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Input Set : A:\PTO.DC.txt
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232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Consensus amino acid sequences used to create
237 sense and anti-sense PCR primers.
239 <400> SEQUENCE: 13
240 His Gln Lys Phe Thr His
241 1 5
243 <210> SEQ ID NO: 14
244 <211> LENGTH: 13
245 <212> TYPE: PRT
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: E-tag
251 <400> SEQUENCE: 14
252 Gly Ala Pro Val Pro Tyr Pro Asp Pro Leu Glu Pro Arg
253 1 5 10
255 <210> SEQ ID NO: 15
256 <211> LENGTH: 6
257 <212> TYPE: PRT
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: His tag
263 <400> SEQUENCE: 15
264 His His His His His
265 1 5
267 <210> SEQ ID NO: 16
268 <211> LENGTH: 208
269 <212> TYPE: PRT
270 <213> ORGANISM: Rattus norvegicus
272 <400> SEQUENCE: 16
273 Met Ala Pro Leu Gly Glu Val Gly Ser Tyr Phe Gly Val Gln Asp Ala
274 1 . 5 . 10 . 15
275 Val Pro Phe Gly Asn Val Pro Val Leu Pro Val Asp Ser Pro Val Leu
276 . 20 . 25 . 30
277 Leu Ser Asp His Leu Gly Gln Ser Glu Ala Gly Gly Leu Pro Arg Gly
278 . 35 . 40 . 45
279 Pro Ala Val Thr Asp Leu Asp His Leu Lys Gly Ile Leu Arg Arg Arg
280 . 50 . 55 . 60
281 Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Glu Ile Phe Pro Asn Gly
282 65 . 70 . 75 . 80
283 Thr Ile Gln Gly Thr Arg Lys Asp His Ser Arg Phe Gly Ile Leu Glu
284 . 85 . 90 . 95
285 Phe Ile Ser Ile Ala Val Gly Leu Val Ser Ile Arg Gly Val Asp Ser
286 . 100 . 105 . 110
287 Gly Leu Tyr Leu Gly Met Asn Glu Lys Gly Glu Leu Tyr Gly Ser Glu
288 . 115 . 120 . 125
289 Lys Leu Thr Gln Gln Cys Val Phe Arg Glu Gln Phe Glu Glu Asn Trp
290 . 130 . 135 . 140

VERIFICATION SUMMARY

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